



SEQUENCE LISTING

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Soumelis, Vassili

<120> MAMMALIAN CYTOKINES; RELATED REAGENTS AND METHODS

<130> DX0903K1

<140> US 09/963,347
<141> 2001-09-25

<150> US 09/399,492
<151> 1999-09-20

<150> US 60/131,298
<151> 1999-04-27

<150> US 60/101,318
<151> 1998-09-21

<160> 9

<170> PatentIn version 3.1

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Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser Lys Asp Leu Ile Thr Tyr	15		20	25	
atg agt ggg acc aaa agt acc gag ttc aac aac acc gtc tct tgt agc					244
Met Ser Gly Thr Lys Ser Thr Glu Phe Asn Asn Thr Val Ser Cys Ser	30		35	40	
aat cgg cca cat tgc ctt act gaa atc cag agc cta acc ttc aat ccc					292
Asn Arg Pro His Cys Leu Thr Glu Ile Gln Ser Leu Thr Phe Asn Pro	45		50	55	
aac cgc cgn gtg cgg tcg ctc gcc aaa gaa atg ttc gcc atg aaa act					340
Asn Arg Arg Val Arg Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr	60		65	70	
aag gct gcc tta gct atc tgg tgc cca ggc tat tgc gaa act cag ata					388
Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile	75	80	85	90	
aat gct act cag gca atg aag aag agg aga aaa agg aaa gtc aca acc					436
Asn Ala Thr Gln Ala Met Lys Lys Arg Arg Lys Arg Lys Val Thr Thr	95		100	105	
aat aaa tgt ctg gaa caa gtg tca caa tta aa					468
Asn Lys Cys Leu Glu Gln Val Ser Gln Leu	110		115		

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Val Ser Phe Arg Lys Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu	15	20	25
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Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu
55 60 65

atg ttc gcc atg aaa act aag gct gcc tta gct atc tgg tgc cca ggc 336
Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly
70 75 80

tat tcg gaa act cag ata aat gct act cag gca atg aag aag agg aga 384
Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg
85 90 95 100

aaa agg aaa gtc aca acc aat aaa tgt ctg gaa caa gtg tca caa tta 432
Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu
105 110 115

caa gga ttg tgg cgt cgc ttc aat cga cct tta ctg aaa caa cag taa 480
Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln
120 125 130

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Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr
-10 -5 -1 1

Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser
5 10 15 20

Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Ile Phe Asn
25 30 35

Asn Thr Val Ser Cys Ser Asn Arg Leu Thr Tyr Ile Thr Ile Ile Ala
40 45 50

Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu
55 60 65

Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln
120 125 130

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Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Ile Pro Pro Leu Ile
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Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Phe Ser Gly Lys
20 25 30

Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Ser Ile Asp Asp Leu
35 40 45

Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn
50 55 60

Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu
65 70 75 80

Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser
85 90 95

Asp Asp Phe Lys Leu His Leu Ser Thr Val Ser Gln Gly Thr Leu Thr
100 105 110

Leu Leu Asn Tyr Thr Ser Lys Gly Lys Gly Ala Lys Ile Ile Ser Leu
115 120 125

Gly Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Leu Lys
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Glu Gln Arg Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Ile Leu Gln
145 150 155 160

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Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Ile Pro Pro Leu Ile
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Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Ile Ser Gly Lys
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Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Asn Ile Asp Asp Leu
35 40 45

Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn
50 55 60

Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu
65 70 75 80

Asn Arg Ala Ser Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ile Ser
85 90 95

Asp Asp Phe Lys Leu His Leu Ser Thr Val Ser Gln Gly Thr Leu Thr
100 105 110

Leu Leu Asn Cys Thr Ser Lys Gly Lys Gly Arg Lys Pro Pro Ser Leu
115 120 125

Ser Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Ser Lys
130 135 140

Val Val Leu Lys Val Asn Asp Leu Tyr Asn Leu Lys Ile Leu Leu Val
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Lys Ile Lys Thr Cys Tyr Asn Ser Ile Leu Asn Val Ile Leu Thr Glu His
165 170 175

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Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu
35 40 45

Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe
50 55 60

Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe
65 70 75 80

Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser
85 90 95

Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr
100 105 110

Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala
115 120 125

Leu Gly Glu Ala Gln Pro Thr Lys Ser Leu Glu Glu Asn Lys Ser Leu
130 135 140

Lys Glu Gln Lys Lys Leu Asn Asp Leu Cys Phe Leu Lys Arg Leu Leu
145 150 155 160

Gln Glu Ile Lys Thr Cys Trp Asn Lys Ile Leu Met Gly Thr Lys Glu
165 170 175

His

4210. 8
4211. 104
4212. PPT
4213. Mus musculus

4400. 8

Met Phe His Val Ser Phe Ala Tyr Ile Phe Gly Ile Pro Leu Ile
1 2 3 4 5 6 7 8 9 10 11 12

50

55

60

Phe Phe Arg Lys His Val Cys Asp Asp Thr Lys Glu Ala Ala Phe Leu
65 70 75 80

Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser
85 90 95

Glu Glu Phe Asn Val His Leu Leu Thr Val Ser Gln Gly Thr Gln Thr
100 105 110

Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Asn Val Lys Glu Gln Lys
115 120 125

Lys Asn Asp Ala Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr
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Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile
145 150

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<212> PRT

<213> Mus musculus

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Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Ile Pro Pro Leu Ile
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Leu Val Leu Leu Pro Val Thr Ser Ser Asp Cys His Ile Lys Asp Lys
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Asp Lys Lys Ala Ser Lys Ser Val Leu Met Ile Ser Lys Leu Val Leu
45 50 55 60 65 70 75 80

Asp Lys Met Thr Gly Thr Asp Ser Asp Cys Pro Asn Asn His Pro Asn
85 90 95 100 105 110 115 120

Phe Leu Thr Thr His Leu Thr Asn Asn Thr Lys His Ala Ala Thr Leu
125 130 135 140 145 150 155 160 165 170 175 180

Asp Lys Thr Thr Ser Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr Thr
185 190 195 200 205 210 215 220 225 230 235 240 245 250

Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Thr Ile Lys Glu Gln Lys
115 120 125

Lys Asn Asp Pro Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr
130 135 140

Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile
145 150